PROJECT DESCRIPTION EQUIPMENT LIST "A" EQUIPMENT LIST "B" GENERAL A. EQUIPMENT TO BE SUPPLIED BY THE SHA B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 355 (WISCONSIN AVENUE) AND ELM STREET IN MONTGOMERY DESCRIPTION CATEGORY CODE QUANTITY CATEGORY CODE QUANTITY DESCRIPTION COUNTY, MARYLAND, MD 355 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION. CONTROLLER CABINET, SIZE "S" W/CTRL, VIDEO INT. 1-8 CAMERAS 900000 1 EACH 1**°**20500 1 EACH MAINTENANCE OF TRAFFIC INTERSECTION OPERATION 973022 6 S.F. SHEET ALUMINUM SIGNS TO CONSIST OF (GROUND MOUNT): 203030 8 C.Y. TEST PIT EXCAVATION THE INTERSECTION OPERATES IN A NEMA THREE-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 355 - 1 EACH R5-1 (30 IN. \times 30 IN.) - GROUND MOUNT 585621 355 L.F. 12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT APPROACHES OPERATING CONCURRENTLY AND THE ELM STREET APPROACH OPERATING ALONE. MARKING LINES AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS BOTH LEGS OF MD 355 AND PEDESTRIAN INDICATIONS 973023 84 L.F. SHEET ALUMINUM SIGNS TO CONSIST OF (POLE MOUNT): 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED 585625 100 L.F. ARE PROVIDED ACROSS THE NORTH LEG OF PIKESWOOD DRIVE. THERMOPLASTIC PAVEMENT MARKINGS R3-1 (36 IN. \times 36 IN.) - MAST ARM MOUNT 801004 18 C.Y. CONCRETE FOR SIGNAL FOUNDATION - 2 EACH R3-18 (36 IN. \times 36 IN.) - MAST ARM MOUNT TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS WOOD SIGN SUPPORTS 4 INCH X 4 INCH 801104 15 L.F. - 1 EACH R3-5(L) (30 IN. \times 36 IN.) - MAST ARM MOUNT MD 355 (WISCONSIN AVENUE) AT ELM STREET - NORTH LEG 1 EACH - 1 EACH R3-5(R) (30 IN. \times 36 IN.) - MAST ARM MOUNT 802145 ADJUST EXISTING HANDHOLE STREETS AT 90 DEGREES - 2 EACH R3-4 (36 IN. x 36 IN.) - MAST ARM MOUNT 802501 525 L.F. NO. 6 AWG STRANDED BARE COPPER GROUND WIRE WAIT: "WAIT TO CROSS WISCONSIN AT ELM, WAIT." * R6-1(L) (36 IN. x 12 IN.) - POLE MOUNT - 1 EACH 805125 100 L.F. 2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED WALK: RAPID TICK R10-3(1) SIGN (9 IN. \times 15 IN.) TO READ "PUSHBUTTON" 805135 15 L.F. 3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED TO CROSS WISCONSIN AVENUE' MD 355 (WISCONSIN AVENUE) AT ELM STREET - SOUTH LEG 805140 125 L.F. 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS ELM STREET" - 2 EACH STREETS AT 90 DEGREES 805155 235 L.F. 4 INCH SCHEDULE 80 RICID PVC CONDUIT-SLOTTED WAIT: "WAIT TO CROSS WISCOMSIN AT ELM, WAIT." * 807202 1 EACH METERED SERVICE PEDESTAL WALK: RAPID TICK 810022 75 L.F. ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN 811001 7 E.ACH FURNISH AND INSTALL ELECTRICAL HANDHOLE ELM STREET AT MD 355 (WISCONSIN AVENUE) - EAST LEG 7 S.F. 813014 INSTALL GROUND SIGN INTERSECTION WITH ANGLED CROSSING 103 S.F. 813015 INSTALL OVERHEAD SIGN WAIT: ": AIT TO CROSS ELM AT WISCONSIN. CROSSWALK ANGLES RIGHT, WAIT." ** MONTGOMERY COUNTY 818004 7 EACH 10 FOOT BREAKAWAY PEDESTAL POLE WALK: RAPID TICK 818030 1 EACH STEEL POLE WITH A SINGLE 38 FOOT MAST ARM C. EQUIPMENT TO BE SUPPLIED BY MONTGOMERY COUNTY * MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10' 818036 1 EACH STEEL POLE WITH TWIN 50 FOOT AND 50 FOOT MAST ARMS ** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC QUANTITY DESCRIPTION 831010 2 EACH LED LAMP AND LUMINAIRE NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY. 1 EACH MONTGOMERY COUNTY SPLICE CABINET - PGLE MOUNT 837001 10 EACH GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH 18 EACH 860284 12 IN. LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION CONTROLLER REQUIREMENTS 3 EACH 860290 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE HOUSED IN A NEMA SIZE "S" BASE MOUNTED CABINET. 861105 820 L.F. ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG) 861106 410 L.F. ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG) 861107 1315 L.F. ELECTRICAL CABLE - 5 CONDUCTOR (ND. 14 AWG) 861108 240 L.F. ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG) MAINTENANCE OF TRAFFIC 2 EACH 866103 15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER. EQUIPMENT LIST "C" 871041 1 EACH INSTA'L AUXILARY CABINET WITH TERMINAL STRIP - POLE MOUNT 871202 1 EACH INSTALL CONTROLLER AND CABINET - BASE MOUNT STANDARD NO. MD-104.04-14 (LEFT TURN BAY CLOSURE) STANDARD NO. MD-104.04-02 (SHOULDER WORK) C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA 800000 1 EACH REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT STANDARD NO. MD-104.04-16 (INTERSECTION LEFT STANDARD NO. MD-104.04-04 (LEFT LANE CLOSURE) ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR LANE, TURN BAY) 800000 6 EACH 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD STANDARD NO. MD-104.04-06 (RIGHT LANE CLOSURE) 800000 6 EACH AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION STANDARD NO. MD-104.04-08 (CENTER LANE CLOSURE) 800000 1 EACH 2-WIRE CENTRAL CONTROL UNIT 000008 2 EACH PAINT SIGNAL AND MAST ARM POLE FEDERAL BROWN NO. 5950-20040 PROJECT CONTACTS 800000 7 EACH PAINT PEDESTAL POLE FEDERAL BROWN NO. 5950-20040 THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS: MS. CORREN JOHNSON MR. KAMAL HAMUD CHIEF. TRAFFIC OPERATIONS DIVISION TEAM LEADER, TRAFFIC SIGNALS MONTGOMERY COUNTY DOT -DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS PHONE: (410) 787-7630 PHONE: (240) 777-8761 MR. TOM FOUNTAIN ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (301) 513-7304 MR. BOB RICKETTS MONTGOMERY COUNTY SIGNAL SHOP MR. VICTOR G: \FTON PHONE: (240) 876-3681 DISTRICT UTILITY ENGINEER PHONE: (301) 513-7350 MR. ROBERT SNYDER - DOTS ASSISTANT DIVISION CHIEF. TRAFFIC OPERATIONS MS. ANYESHA MOOKHERJEE PHONE: (410) 787-7630 ASSISTANT DISTRICT ENGINEER -TRAFFIC (MONTGOMERY) MR. EDWARD RODENHIZER - OOTS PHONE: (301) 513-7404 CHIEF. SIGNAL OPERATIONS SECTION PHONE: (410) 787-7670 STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION



MD 355 (Wisconsin Avenue) at Elm Street

Bethesda; Maryland

TRAFFIC SIGNALIZATION PLAN

SCALE NONE	ADVERTISED DATE_3		TRACT NO. <u>MO1175177</u>
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